

Title (en)

THERMAL BATTERY WITH ENCAPSULATED PHASE-CHANGE MATERIAL

Title (de)

WÄRME-AKKU MIT VERKAPSELTEM PHASENWECHSELMATERIAL

Title (fr)

BATTERIE THERMIQUE À MATÉRIAUX À CHANGEMENT DE PHASE ENCAPSULÉ

Publication

EP 3250872 A1 20171206 (FR)

Application

EP 16701761 A 20160126

Priority

- FR 1550582 A 20150126
- EP 2016051597 W 20160126

Abstract (en)

[origin: WO2016120283A1] The invention relates to a thermal battery comprising a chamber having an inlet and an outlet for fluid and containing tubes (1) made from an encapsulated phase-change material, said tubes (1) being disposed parallel to the flow of the fluid and said tubes (1) comprising radial distance pieces (3) that separate the tubes (1).

IPC 8 full level

F28F 9/013 (2006.01); **F28D 20/02** (2006.01)

CPC (source: CN EP KR US)

F28D 20/021 (2013.01 - US); **F28D 20/023** (2013.01 - CN EP KR US); **F28F 9/013** (2013.01 - CN EP KR US); **F28D 2020/0078** (2013.01 - KR); **F28F 2240/00** (2013.01 - CN EP KR US); **Y02E 60/14** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2016120283A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3032031 A1 20160729; FR 3032031 B1 20170127; CN 107407536 A 20171128; EP 3250872 A1 20171206; EP 3250872 B1 20190605; KR 20170103016 A 20170912; US 10746481 B2 20200818; US 2018017338 A1 20180118; WO 2016120283 A1 20160804

DOCDB simple family (application)

FR 1550582 A 20150126; CN 201680007074 A 20160126; EP 16701761 A 20160126; EP 2016051597 W 20160126; KR 20177023756 A 20160126; US 201615546025 A 20160126